

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

# NOTICE OF ACCEPTANCE (NOA)

Tischler und Sohn (USA) Ltd. Six Suburban Avenue Stamford, CT 06901

#### Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER – Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Mahogany Impact" Inswing Wood Casement Window -- L.M.I.

APPROVAL DOCUMENT: Drawing No. 1531, titled "In-Swing Impact Wood Casement Window", sheets 01 through 14 of 14, dated 04/03/08, with revision "B1", dated 09/04/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

#### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, Wedel (Schleswig-Holstein), Germany, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 13-1105.09 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Jaime D. Gascon, P. E.



JUSTA

NOA No. 14-0428.21 Expiration Date: January 08, 2019 Approval Date: July 10, 2014 Page 1

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

### A. DRAWINGS

- 1. Manufacturer's die drawings and sections. (Submitted under previous NOA No. 08–0804.16)
- Drawing No. 1531, titled "In-Swing Impact Wood Casement Window", sheets 01 through 14 of 14, dated 04/03/08, with revision "B1", dated 09/04/13, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E. (Submitted under previous NOA No. 13-1105.09)

#### B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 20-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203–94 ·
  - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of fixed and operable wood casement windows, prepared by Architectural Testing, Inc., Test Report No. ATI-77324.01-109-18, dated 06/30/08, signed and sealed by Michael D. Stremmel, P. E. (Submitted under NOA No. 08-0804.16)

### C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with FBC–2004 and FBC–2007, prepared by W. W. Schafer Engineering & Consulting, P. A., dated 07/28/08, and updated to FBC–2010 on 10/28/13, signed and sealed by Warren W. Schafer, P. E. (Submitted under previous NOA No. 13–1105.09)
- 2. Glazing complies with ASTM E1300-04/09

## D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

### E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 12-1231.10 issued to Eastman Chemical Company (MA) for their "Saflex Clear and Color Glass Interlayers" dated 03/28/13, expiring on 05/21/16.
- 2. Notice of Acceptance No. 12-1231.08 issued to Eastman Chemical Company (MA) for their "Saflex CP Saflex and Saflex HP Composite Glass Interlayers with PET Core" dated 03/28/13, expiring on 12/11/18.

Jaime D. Gascon, P. E.

Product Control Section Supervisor

NOA No. 14-0428.21

Expiration Date: January 08, 2019 Approval Date: July 10, 2014

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

### F. STATEMENTS

- 1. Statement letter of conformance, and compliance with FBC 5<sup>th</sup> Edition (2014), issued by W. W. Schaefer Engineering & Consulting, P. A., dated 04/15/14, signed and sealed by Warren W. Schaefer, P. E.
- 2. Statement letter of conformance, and compliance with FBC 2010, issued by W. W. Schaefer Engineering & Consulting, P. A., dated 09/03/13, signed and sealed by Warren W. Schaefer, P. E. (Submitted under previous NOA No. 13–1105.09)
- 3. Statement letter of independence and no financial interest, issued by W. W. Schaefer Engineering & Consulting, P. A., dated 09/04/13, signed and sealed by Warren W. Schaefer, P. E.

(Submitted under previous NOA No. 13-1105.09)

- 4. Distributor Agreement between Tischler und Sohn (USA), Ltd., Connecticut, USA, and Tischler/ Cornelius Korn, G.m.b.H., Wedel (Schleswig-Holstein), Germany, dated 04/13/09, signed by Tim Carpenter and Wilhelm Korn, respectively.

  (Submitted under previous NOA No. 11–1101.11)
- 5. Laboratory addendum letter for Test Report No. ATI-77324.01-109-18, issued by Architectural Testing, Inc., dated 11/20/08, signed and sealed by Michael D. Stremmel, P. E. (Submitted under NOA No. 08-0804.16)
- 6. Laboratory compliance letter for Test Report No. ATI-77324.01-109-18, issued by Architectural Testing, Inc., dated 07/01/08, signed and sealed by Michael D. Stremmel, P. E. (Submitted under NOA No. 08-0804.16)

#### G. OTHERS

1. Notice of Acceptance No. 13–1105.09, issued to Tischler und Sohn (USA), Ltd. for their Series "Mahogany Impact Wood Inswing Casement Window – L.M.I.", approved on 12/26/13 and expiring on 01/08/19.

Jaime D. Gascon, P. E.

Product Control Section Supervisor NOA No. 14-0428.21

Expiration Date: January 08, 2019 Approval Date: July 10, 2014

#### GENERAL NOTES:

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN

PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S).

2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.

3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.

4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCALS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.

5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).

6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.

7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.

8, DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF Kd = 0.85 MAY BE APPLIED PER THE ASC 7 STANDARD.

9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD SCREW ANALYSIS

ONLY.

10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING

CODE CHAPTER 20.

11. All WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

### CORNER CONSTRUCTION:

RECTANGULAR FRAME CORNERS: MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.

ARCHED FRAME CORNERS: ARCHED FRAME BUTTED TO STRAIGHT FRAME, JOINED WITH ONE(1) NO.14 X 3" WOOD SCREW, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT. HALF ROUND FRAME CORNERS: FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.

<u>RECTANGULAR SASH CORNERS:</u> MORTISE & TENON CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.

ARCHED SASH CORNERS: ARCHED SASH BUTTED TO STRAIGHT SASH, JOINED WITH ONE(1) NO.14 X 3" WOOD SCREW, & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT. HALF ROUND SASH CORNERS: FINGER JOINT CONSTRUCTION JOINED & GLUED WITH PONAL SUPER 3 WOOD GLUE OR EQUIVALENT.

	·			
FRAME A	NCHOR REQUIREMENTS TABLE			
OPENING TYPE (SUBSTRATE)	FRAME/CLIP/BRACKET TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.	
	FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS/WOOD SCREW OR 1/4" BTI SCREW	1 1/4"	3/4"	
MIN. 18 GA. 33 KSI METAL STUD	(2)1/4-14 SELF TAP/DRILLING SCREW	FULL	1/2*	
	(2)1/4-14 SELF TAP/DRILLING SCREW	FULL	1/2*	
MIN. 1/8" THK 6063T5 ALUM.	(2)1/4-14 SELF TAP/DRILLING SCREW	FULL	1/2"	
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"	
INS	STALLATION CLIP SCREWS			
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 X 1 1/2" SMS	1 3/8"	3/4"	
MIN. 18 GA. 33 KSI METAL STUD (2)12-14 SELF TAP/DRILLING SCREW FULL			1/2"	
MIN. 1/8" THK A36 STEEL	(2)12-14 SELF TAP/DRILLING SCREW	FULL	1/2"	
MIN. 1/8" THK 6063-T5 ALUM.	(2)1214 SELF TAP/DRILLING SCREW	FULL	1/2"	
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2*	
BTI BRA	CKET & ANGLE CLIP SCREWS		•	
MIN. 2X6 WOOD FRAME OR BUCK NO. 8 X 1 1/2" SMS 1 1/8" 3/4"				
MIN. 18 GA. 33 KSI METAL STUD	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2"	
MIN. 1/8" THK A36 STEEL	(2) 8-18 SELF TAP/DRILLING SCREW	FULL	1/2**	
MIN. 1/8" THK 6063-T5 ALUM.	(2) 8-18 SELF TAP/DRILLING SCREW	FULL.	1/2"	
(1) CONCRETE SCREWS SHALL BE	ELCO ULTRACONS, ELCO CRETE-FLEX (	OR HILTI		

KWIK-CON II (HARDENED STEEL OR S.S.).

(2) ALL SELF TAP/DRILLING SCREWS SHALL BE MIN. GR. 5

LOCK STRIKE REQUIREMENTS (TOP OF PANEL) QUANTITY **WIDTH** PER PANEL RECTANGULAR PANEL OVER 24" LESS THAN 24' ARCH TOP PANEL **OVER 28"** 15" TO 28" 2 LESS THAN 15' ROUND TOP PANEL **OVER 32"** 4 20" TO 32' 3 12" TO 20" 2 LESS THAN 12'

LOCK STRIKE REQUIREMENTS (LOCK SIDE OF PANEL)					
SASH HEIGHT	QUANTITY PER PANEL				
ALL PANEL SHAPES					
OVER 77"	3				
40" TO 77"	2				
LESS THAN 40"	1				

LOCK STRIKE REQUIREMENTS				
(BOTTOM OF PANEL)				
SASH	QUANTITY			
WIDTH	PER PANEL			
ALL PANEL SHAPES				
OVER 32"	3			
24" TO 32"	2			
LESS THAN 24"	1			

LOCK STRIKE REQUIREMENTS (HINGE SIDE OF TILT-TURN WINDOWS) SASH QUANTITY HEIGHT PER PANEL ALL PANEL SHAPES **OVER 79**" 45" TO 79" 27" TO 45" 2 LESS THAN 27' NOTE: WHEN WINDOW IS TILT- TURN, ONLY 2 HINGES ARE USED COMBINED WITH LOCK POINTS. WHEN WINDOW IS SWING ONLY, ONLY HINGES EXIST.

SASH WIDTH DIMENSIONS ARE
APPROXIMATELY 2 1/2" LESS
THAN THE FRAME WIDTH &
SASH HEIGHT DIMENSIONS ARE
APPROXIMATELY 3" LESS THAN
THE FRAME HEIGHT

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT DRAWN BY: SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

HINGE REQU	REMENTS
SASH	QUANTITY
HEIGHT	PER PANEL
POT HING	GES
OVER 74"	5
51" TO 74"	4
27" TO 51"	3
LESS THAN 27"	2
SCREWED-IN	HINGES
OVER 74"	4
46" TO 74"	3
LESS THAN 46"	2
CONCEALED	HINGES
OVER 78"	5
54" TO 78"	4
29" TO 54"	3
LESS THAN 29"	2

HINGE REQUIREMENTS
(TILT-TURN WINDOWS)
2 PER WINDOW

(ALL SIZES OF ALL WINDOWS)

PRODUCT REVISED as complying with the Florida

Building Code
Acceptance, No. 14 9 228
Expiration Date 1408 2019

Miami Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 13-1105.

By Manuel 180 Miami Dade Product Control

NO. 44135 JAIN STATE OF STATE

CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL. 33418
PHONE: 561-744-3424

E

TISCHLER UND SOHN (USA) E.
SIX SUBURBAN AVENUE
STAMFORD, CONNECTICUT
203-674-0600

CASEMENT WINDOW

WOOD

IMPACT

-SWING

CHECKED BY: W.W.S.

04/03/08

SEP 014 2013
WARREN W. SCHAEFER, P.E.

SHEET NO.

of 14

ALLOWABLE DESIGN PRESSURE (SINGLE & DOUBLE WINDOWS)

THE "SASH HEIGHT" IS

CONSIDERED TO BE FULL SASH

HEIGHT FOR RECTANGULAR

UNITS OR DISTANCE FROM THE

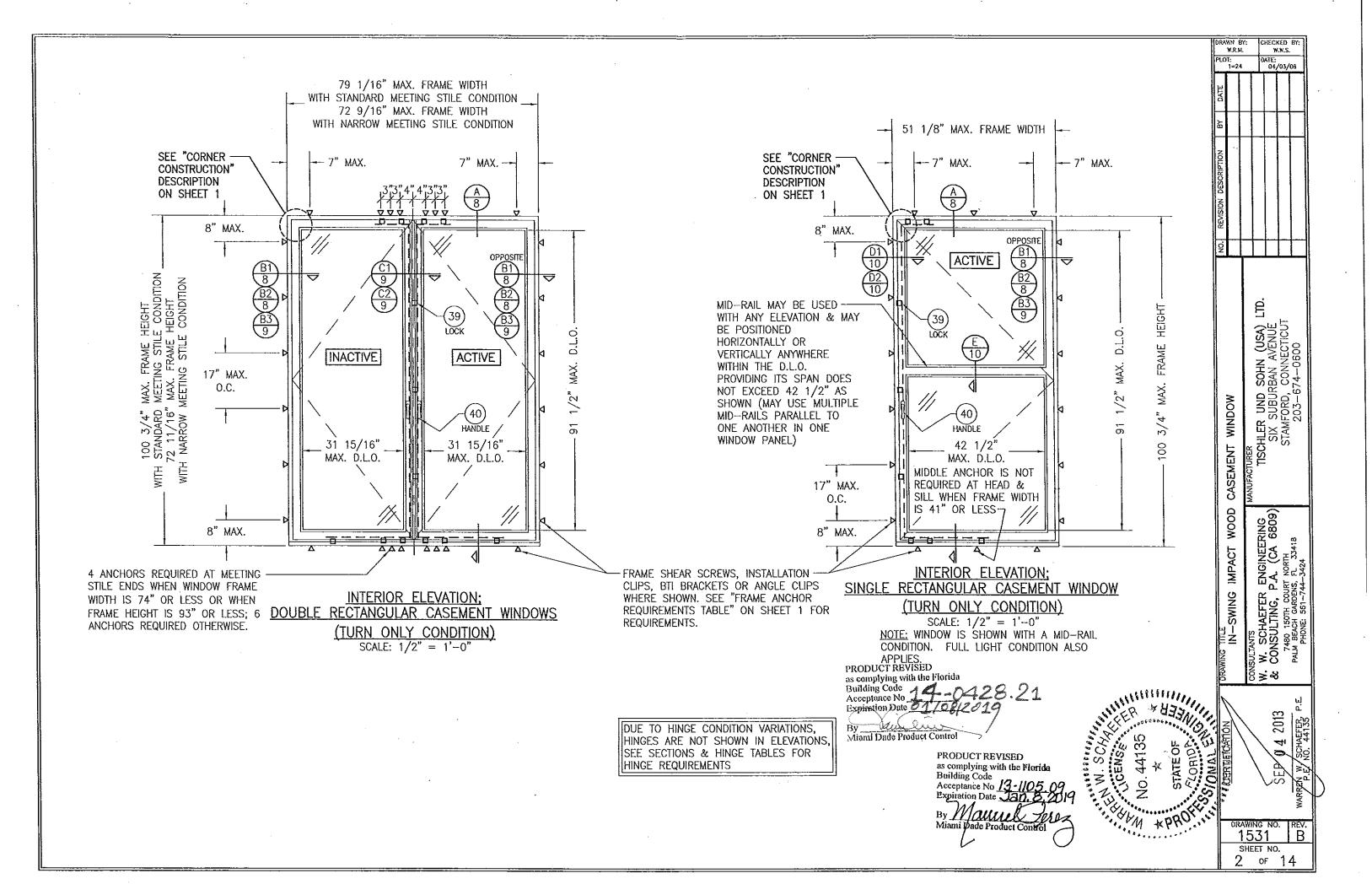
BASE OF SASH TO SASH

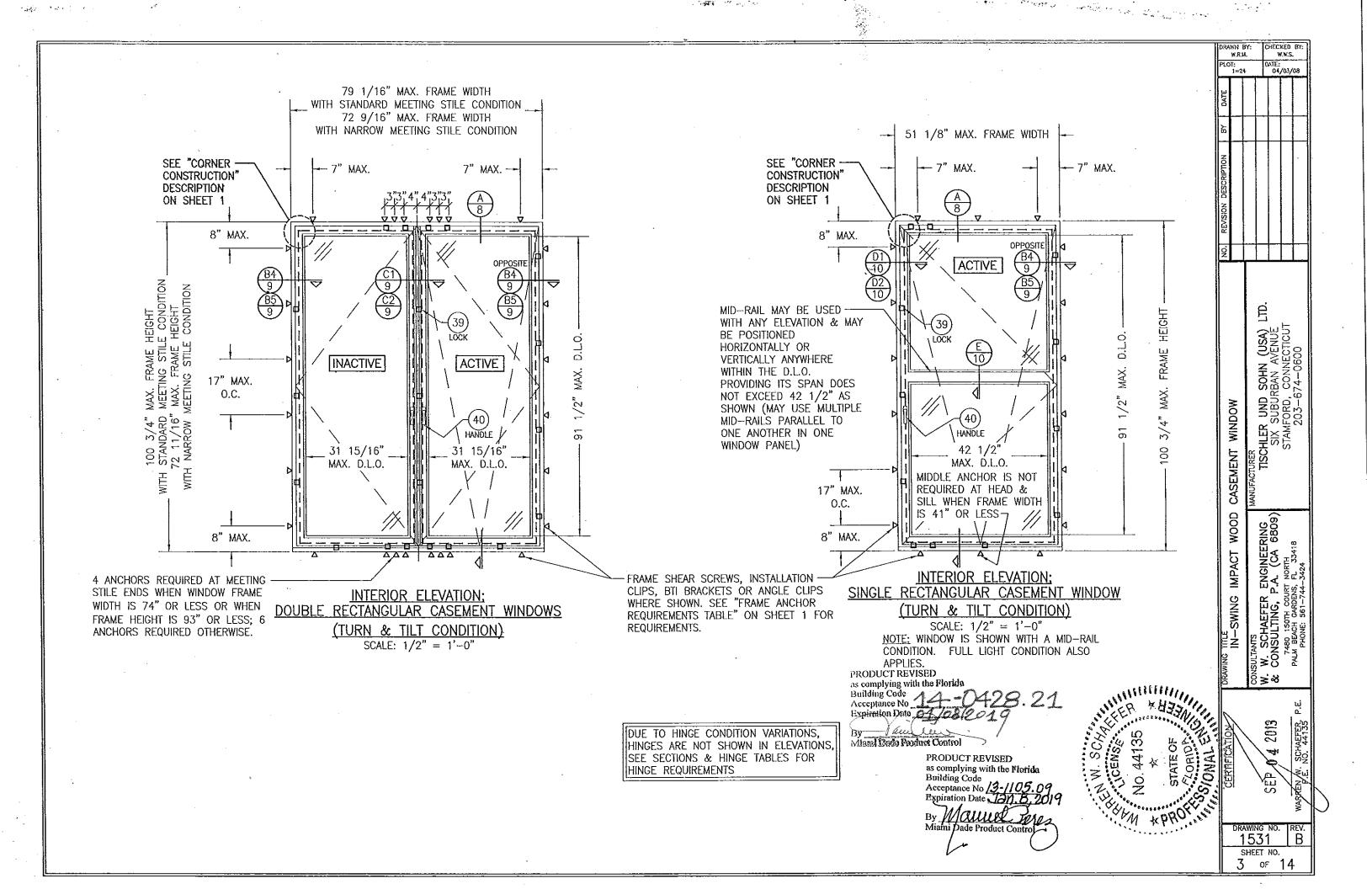
SRINGLINE FOR SHAPED UNITS

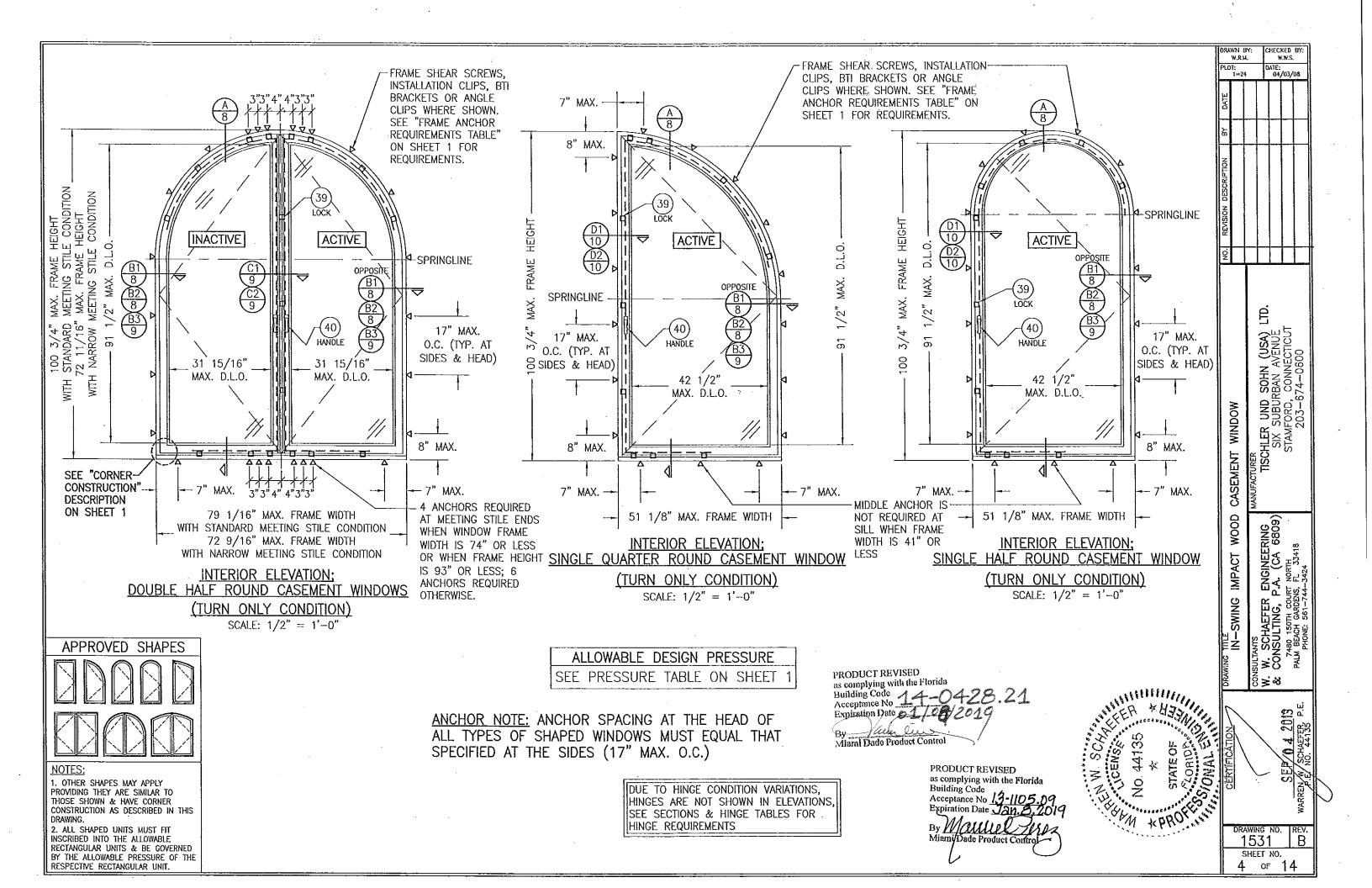
MAX. FRAME	MAX. FRAME	ALLOWABLE	PRESSURE		
HEIGHT (IN.)	WIDTH (IN.)	POSITIVE (PSF)	NEGATIVE (PSF)		
SINGLE WINDOW					
100 3/4	51 1/8	70	70		
76 11/16	35 15/16	70	(1) 85		
DOUBLE WINDOW					
100 3/4   79 1/16		(2) 70	(2) 70		
76 11/16"	71 13/16	70	(1) 85		
(1) HIGHER	PRESSURE	OF -85 PS	SE IS ONLY		

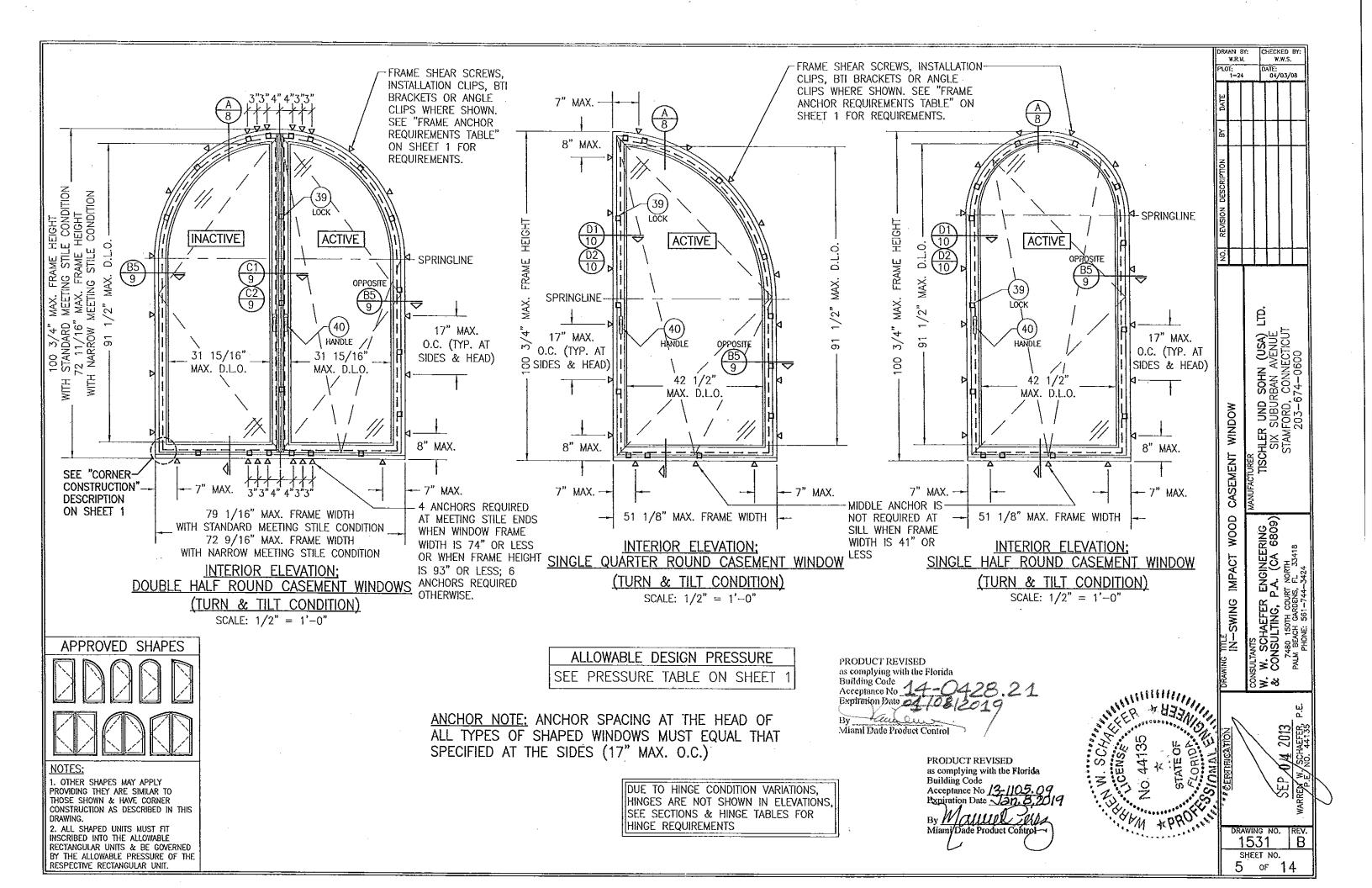
76 11/16" 71 13/16 70 (1) 85

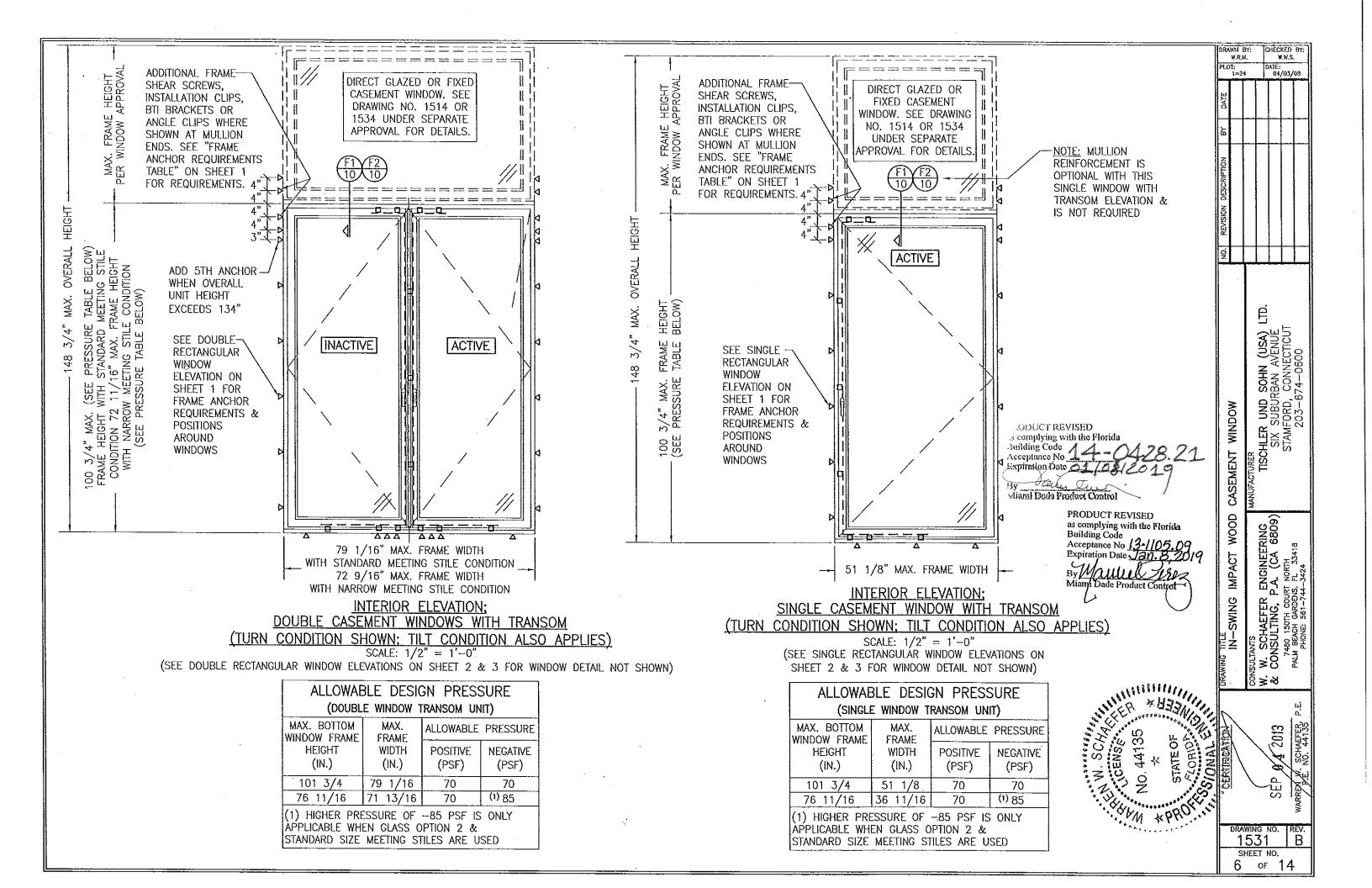
(1) HIGHER PRESSURE OF -85 PSF IS ONLY APPLICABLE WHEN GLASS OPTION 2 & STANDARD SIZE MEETING STILES ARE USED (2) WITH FULL SIZE SINGLE WINDOWS USING GLASS OPTION 4, ALLOWABLE PRESSURE MUST BE REDUCED TO +/-66 PSF. PRESSURE MAY BE INCREASED TO +/-70 PSF IF THE D.L.O. WIDTH IS DECREASED TO MAX. 39.5" OR THE D.L.O. HEIGHT IS DECREASED TO MAX. 87".

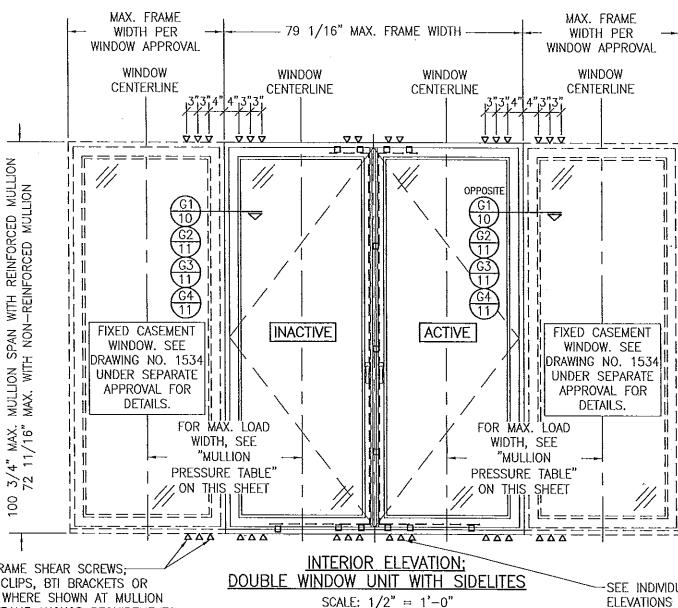












ADDITIONAL FRAME SHEAR SCREWS, INSTALLATION CLIPS, BTI BRACKETS OR ANGLE CLIPS WHERE SHOWN AT MULLION TABLE" ON SHEET 1 FOR REQUIREMENTS. (SEE MULLION PRESSURE TABLE FOR REQUIRED QUANTITY OF ANCHORS AT

MULLION ENDS)

ENDS. SEE "FRAME ANCHOR REQUIREMENTS OXXO UNIT IS SHOWN. ALL OTHER FIXED/OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITIONS SHOWN.

SEE INDIVIDUAL WINDOW ELEVATIONS FOR FRAME ANCHOR REQUIREMENTS & POSITIONS AROUND WINDOWS

# **MULTIPLE UNIT NOTES:**

1. FOR ALL DETAIL NOT SHOWN, INDIVIDUAL WINDOW ELEVATIONS.

- 2. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERED FROM THE WINDOWS & THEIR MULLIONS.
- 3. ANY COMBINATION OF FIXED/OPERABLE WINDOWS IN ONE OPENING SHALL APPLY.
- 4. SHAPED WINDOWS ALSO APPLY TO SIDE MULLING (WHEN APPLICABLE) UNDER THE SAME RESTRICTIONS SHOWN.
- 5. MULLIONS MAY BE A 1-PIECE SECTION OR JAMB TO JAMB. SEE SECTIONS G1 THROUGH G4 FOR DETAIL.

PRODUCT REVISED as complying with the Florida Building Code

Mianli Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code

Miami Dade Product Control

CD111	BUCTL	TII NOT KENTI OROZO			1.1	- 1				
SPAN (IN.)	WIDTH (IN.)		OR 6 END 4 END 6 END ANCHORS ANCHORS ANCHORS		4 OR 6 END ANCHORS					
		POS.	NEG.	POS.	NEG.	POS.	NEG.	չ		
	51	N/A	N/A	46.5	46.5	53.8	53.8	Н		
	49	N/A	N/A	49.3	49.3	57.1	57.1	Z O		
101	43	N/A	N/A	56.2	56.2	65.1	65.1	YIPT.		
101	.37	N/A	N/A	65.3	65.3	70.0	75.2	2 555		
	31	N/A	N/A	70.0	78.0	70.0	85.0			
	25	N/A	N/A	70.0	85.0	70.0	85.0	REVISION	2	
	51	N/A	N/A	48.9	48.9	56.7	56.7	RE		
	49	N/A	N/A	51.9	51.9	60.1	60.1	ò	_	
96	43	· N/A	N/A	59.2	59.2	68.5	68.5	z		
90	37	N/A	N/A	68.8	68.8	70.0	79.6			
	31	N/A	N/A	70.0	82.1	70.0	85.0			
	25	N/A	N/A	70.0	85.0	70.0	85.0			
	51	N/A	N/A	55.9	55.9	64.7	64.7			
	49	N/A	N/A	59.3	59.3	68.7	68.7			
84	43	N/A	N/A	67.6	67.6	70.0	78.3			
		70.0	85.0							
	31	N/A	N/A	70.0	85.0	70.0	85.0			
	51	N/A	N/A	61.0	61.0	70.0	70.6			
77	49	N/A	N/A	64.7	64.7	70.0	75.0	1	Š	
77	43	N/A	N/A	70.0	73.8	70.0	85.0	9	WINDOW WINDOW	
	37	N/A	N/A	70.0	85.0	70.0	85.0	1	₹	
	51	· · · · · · · · · · · · · · · · · · ·		74.8	<u> </u>	=				
	49	56.7	56.7	68.5	68.5	70.0	79.3	(	Ē	
70 7/4	43	62.0	62.0	70.0	78.1	70.0	85.0	ļ	Ž.	
72 3/4	37	70.0	70.0	70.0	85.0	70.0	85.0	3	CASEMEN	
	31	70.0	80.7	70.0	85.0	70.0	85.0	11		
	25	70.0	85.0	70.0	85.0	70.0	85.0		MOON	
	51	66.9	66.9	70.0	70.1	70.0	81.2	<u>ן</u>	₹	
	49	69.0	69.0	70.0	74.4	70.0	85.0		· 5	
67	43	70.0	74.9	70.0	84.8	70.0	85.0	;	MPACI	
	37	70.0	83.7	70.0	85.0	70.0	85.0		$\mathbf{\Xi}$	
	31	70.0	85.0	70.0	85.0	70.0	85.0	(	ত	
	51	70.0	77.0	70.0	77.0	70.0	85.0	1	SWING	
61	49	70.0	81.7	70.0	81.7	70.0	85.0	[ i	Ŋ	
	43	70.0	85.0	70.0	85.0	70.0	85.0	E:	ż	
55	51	70.0	85.0	70.0	85.0	70.0	85.0	NG		
NOTES:						-		RAWING		

MULLION ALLOWABLE DESIGN PRESSURE

NON-REINFORCED

ALLOWABLE PRESSURE (+/- PSF)

REINFORCED

MAXIMUM

LOAD

MAXIMUM MULLION

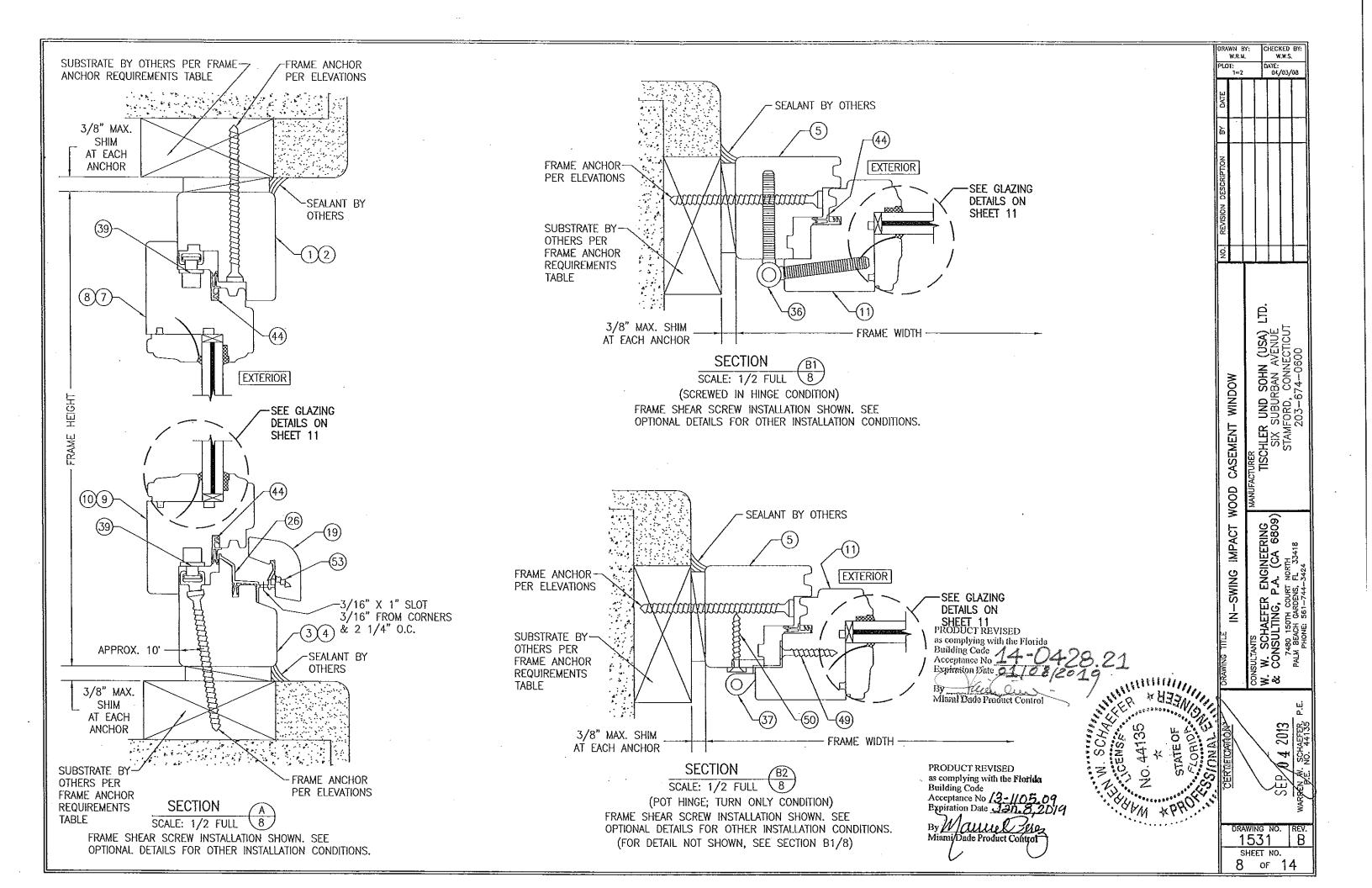
- 1. LOAD WIDTH IS THE DISTANCE BETWEEN WINDOW CENTERLINES.
- Acceptance No 13 · 110 5 · 09 2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE Expiration Date Jan 8 70 19 PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL WINDOW.
  - 3. "N/A" DESIGNATES A SIZE NOT APPLICABLE TO THAT REINFORCEMENT CONDITION.
  - 4. SIZE VALUES IN TABLE ARE +/-1/2"

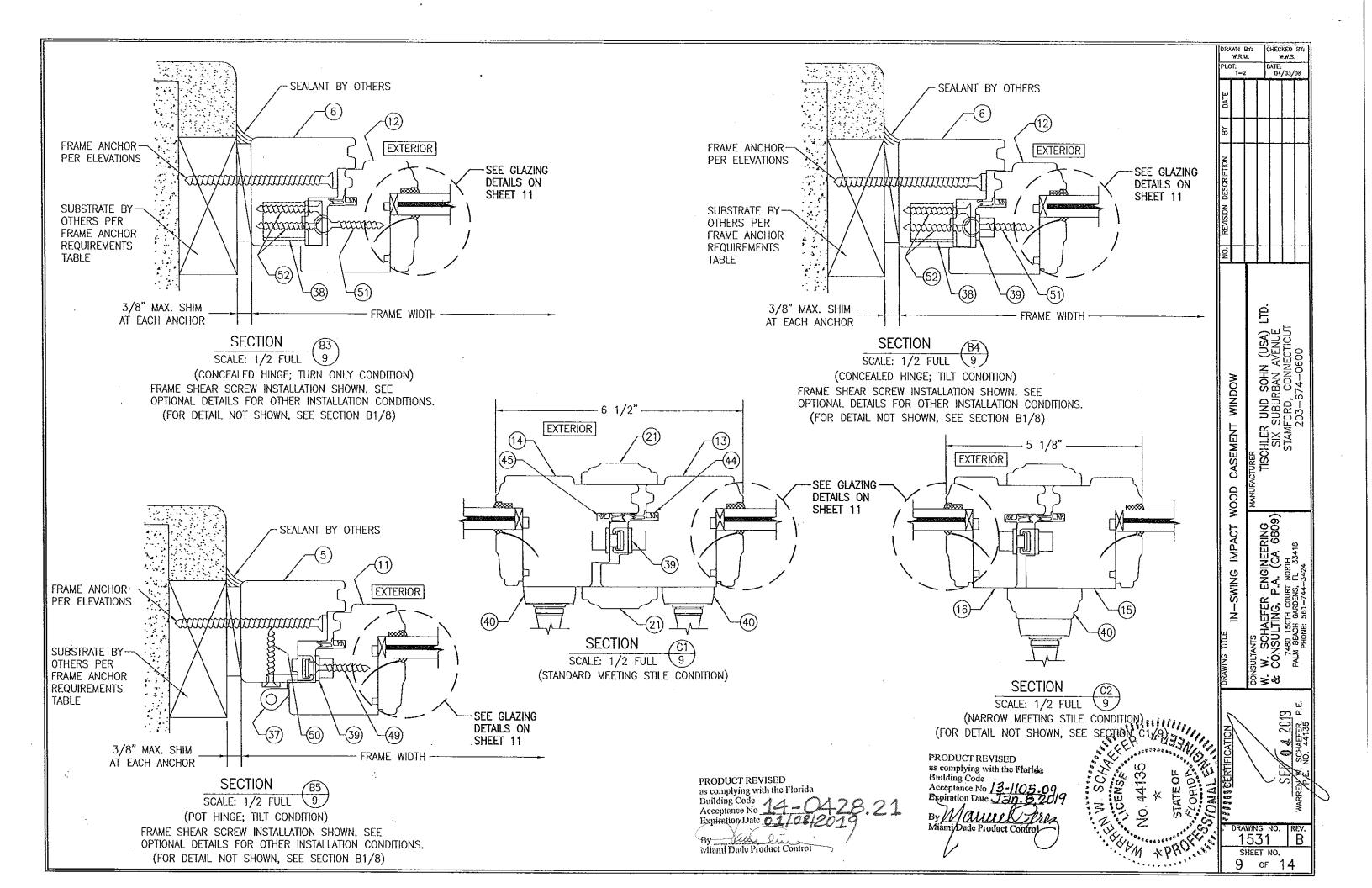
SHEET NO. of **14** 

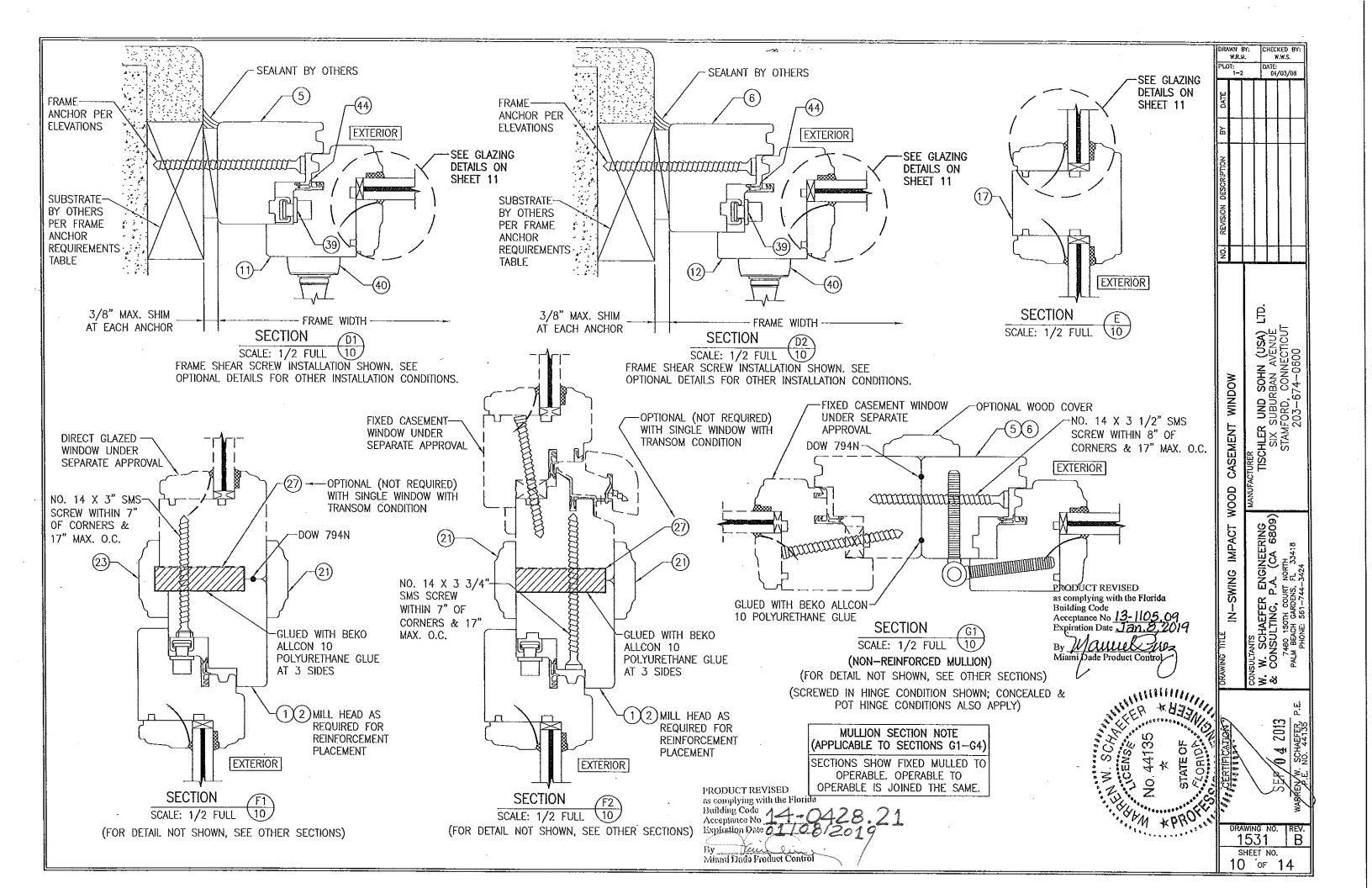
IEERING CA 6809)

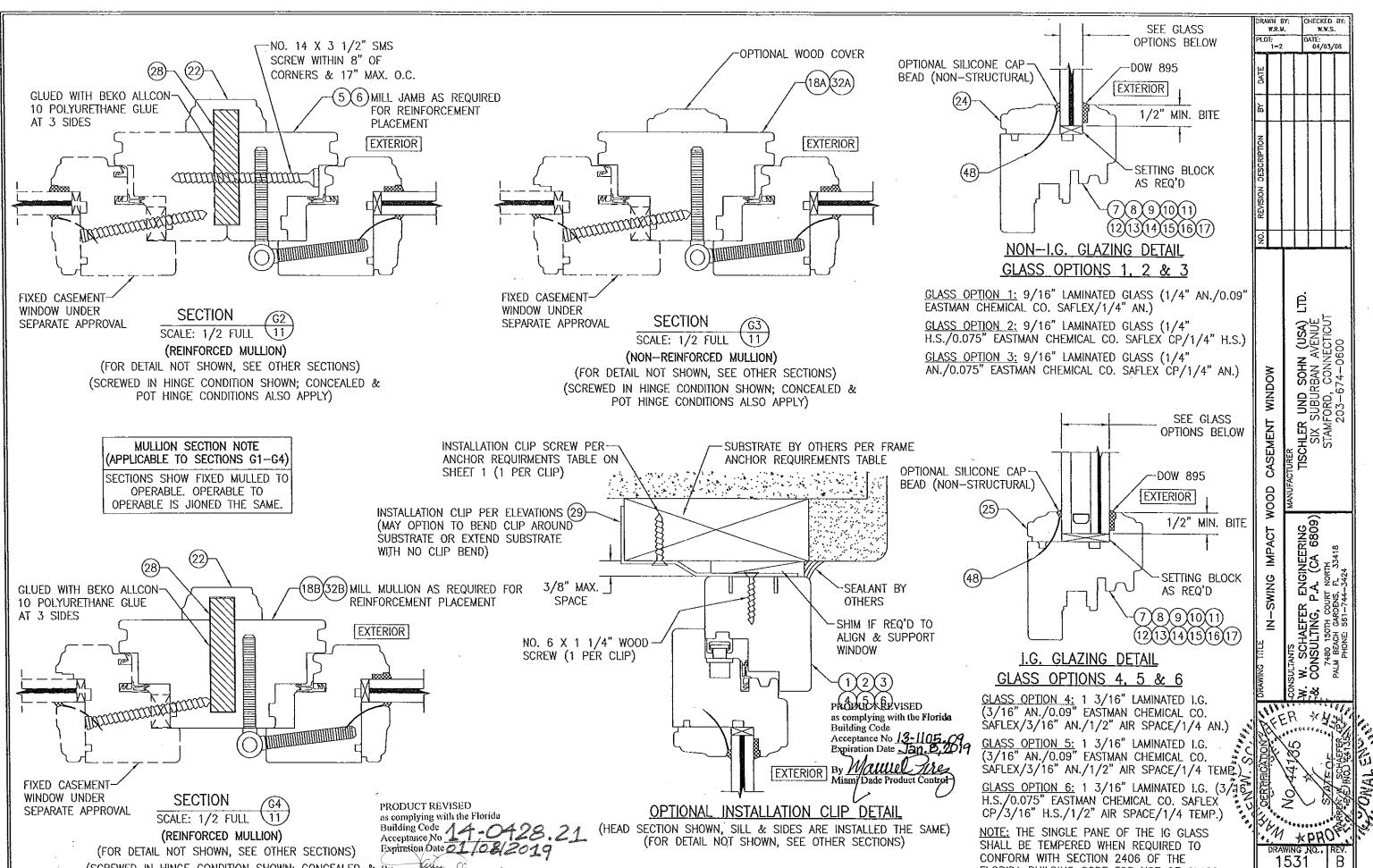
LOT: 1=24

ate: | 04/03/08









(SCREWED IN HINGE CONDITION SHOWN; CONCEALED & By

POT HINGE CONDITIONS ALSO APPLY)

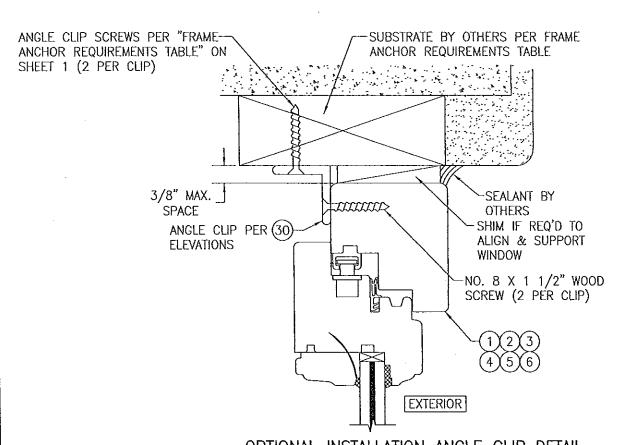
Miami Dade Product Control

SHEET NO.

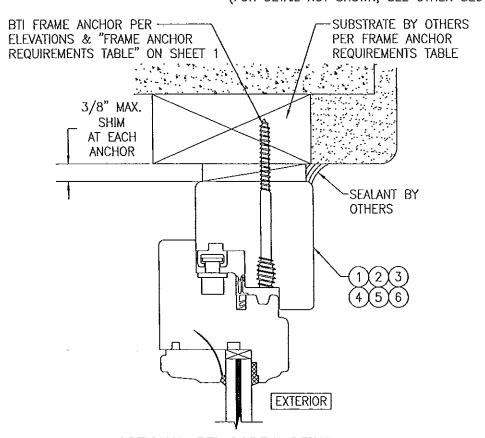
11 of 14

FLORIDA BUILDING CODE FOR USE OF GLASS

IN HAZARDOUS LOCATIONS.

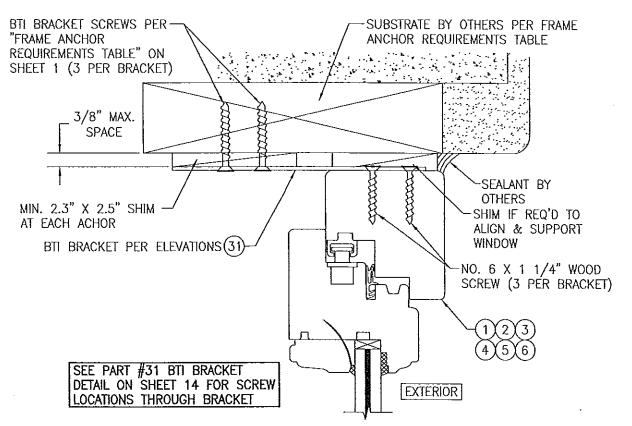


OPTIONAL INSTALLATION ANGLE CLIP DETAIL (HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME) (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

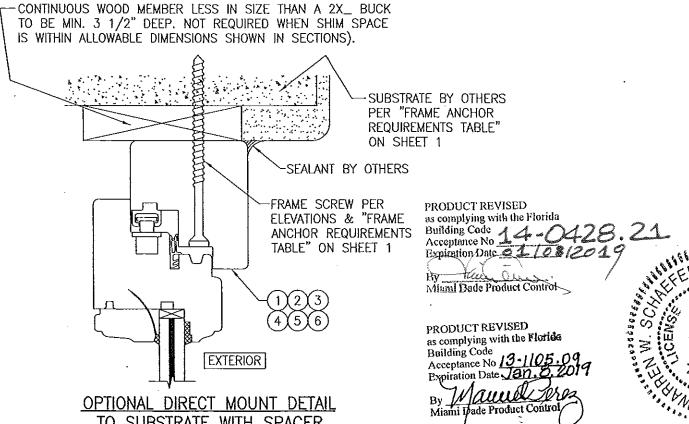


OPTIONAL BTI SCREW DETAIL

(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME) (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL INSTALLATION BTI BRACKET DETAIL (HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME) (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME) (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

White Et Hank No. 44135

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CHECKED BY:

ATE: 04/03/08

W.R.W.

CASEMENT WINDOW

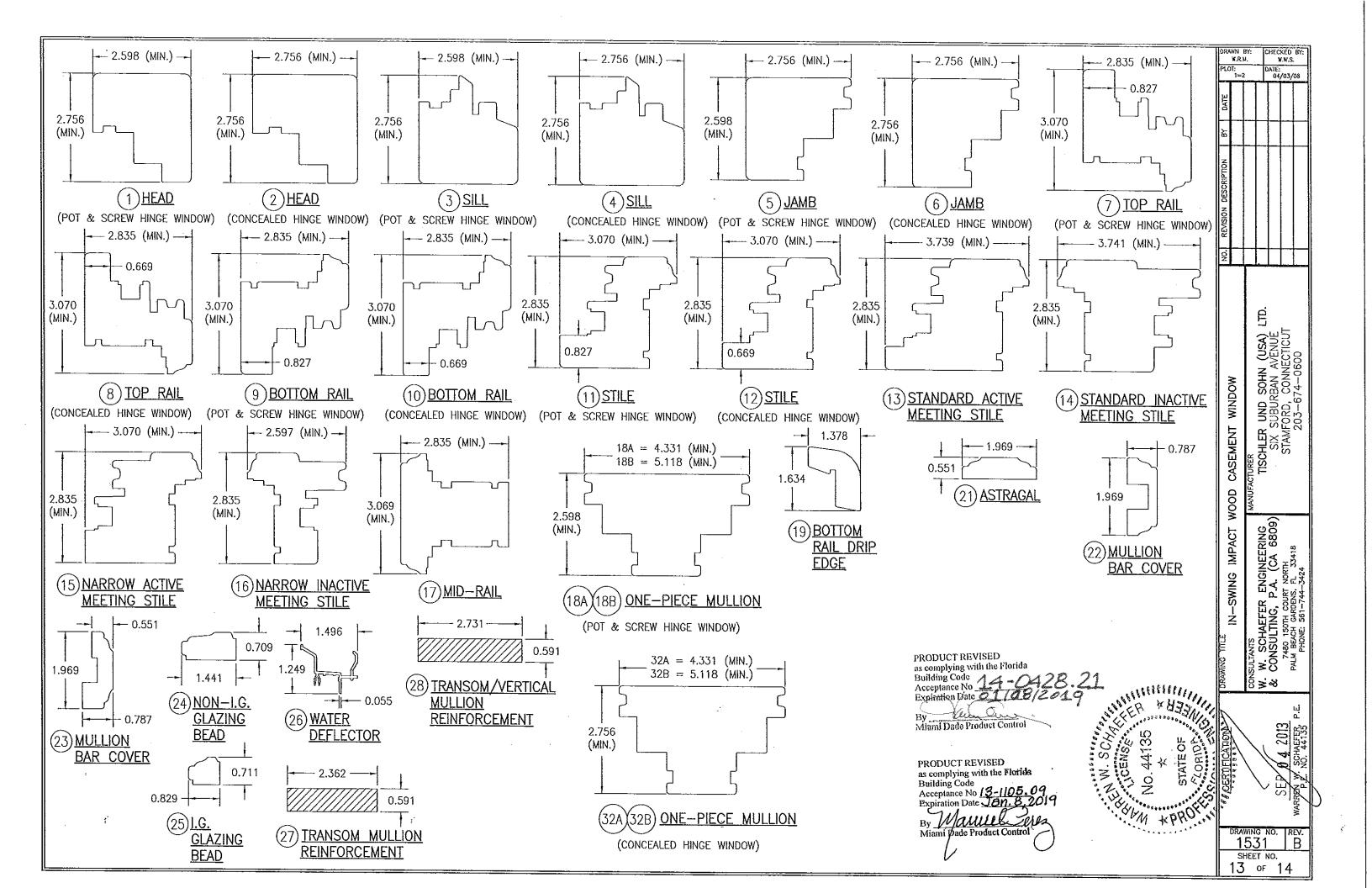
WOOD

IN-SWING

P.A. (CA 6809)
UNIT NORTH
ENS, FL. 33418

SULIANTS
W. SCHAEFER
CONSULTING, P

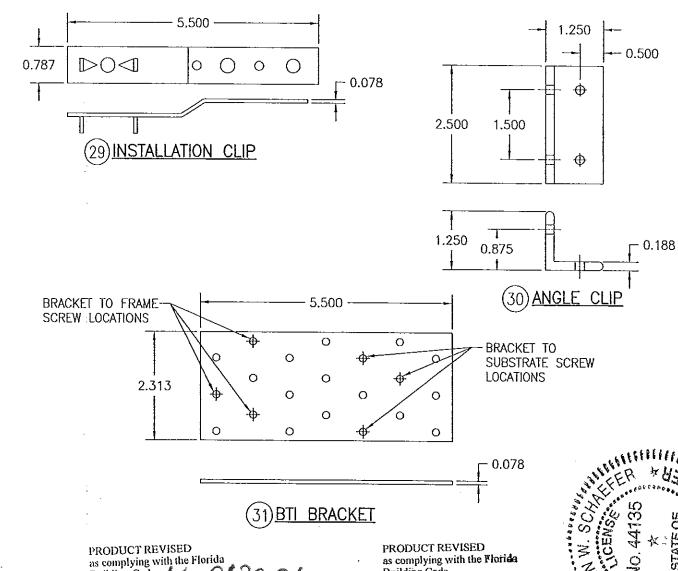
REV. B 1531 SHEET NO. 12 of 14



ITEM #	<u></u>	MANUFACTURER/NOTES
	PARTS	
1	HEAD (POT & SCREW HINGE WINDOW)	MAHOGANY
2	HEAD (CONCEALED HINGE WINDOW)	MAHOGANY
3	SILL (POT & SCREW HINGE WINDOW)	MAHOGANY
4	SILL (CONCEALED HINGE WINDOW)	MAHOGANY
5	JAMB (POT & SCREW HINGE WINDOW)	MAHOGANY
6	JAMB (CONCEALED HINGE WINDOW)	MAHOGANY
7	TOP RAIL (POT & SCREW HINGE WINDOW)	MAHOGANY
8	TOP RAIL (CONCEALED HINGE WINDOW)	MAHOGANY
9	BOTTOM RAIL (POT & SCREW HINGE WINDOW)	MAHOGANY
10	BOTTOM RAIL (CONCEALED HINGE WINDOW)	MAHOGANY
_11	STILE (POT & SCREW HINGE WINDOW)	MAHOGANY -
12	STILE (CONCEALED HINGE WINDOW)	MAHOGANY
13	STANDARD ACTIVE MEETING STILE	MAHOGANY
14	STANDARD INACTIVE MEETING STILE	MAHOGANY
15	NARROW ACTIVE MEETING STILE	MAHOGANY
16	NARROW INACTIVE MEETING STILE	MAHOGANY
17	MIDRAIL	MAHOGANY
18A	ONE-PIECE NON-REINFORCED MULLION (POT & SCREW HINGE WINDOW)	MAHOGANY
18B	ONE—PIECE REINFORCED MULLION (POT & SCREW HINGE WINDOW)	MAHOGANY
19	BOTTOM RAIL DRIP EDGE	MAHOGANY
21	ASTRAGAL	MAHOGANY
22	MULLION BAR COVER	MAHOGANY
23	MULLION BAR COVER	MAHOGANY
24	NON-I.G. GLAZING BEAD	MAHOGANY
25	I.G. GLAZING BEAD	MAHOGANY
26	WATER DEFLECTOR	6061-T6 ALUMINUM
27	TRANSOM MULLION REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
28	TRANSOM/VERTICAL MULLION REINFORCEMENT	34 KSI STAINLESS STEEL OR A36 STEEL
29	INSTALLATION CLIP	GALVANIZED 54 KSI STEEL
30	ANGLE CLIP	6061-T6 ALUMINUM
31	BTI BRACKET	GALVANIZED 54 KSI STEEL
32A	ONE—PIECE NON—REINFORCED MULLION (CONCEALED HINGE WINDOW)	MAHOGANY
32B	ONE-PIECE REINFORCED MULLION	MAHOGANY
	(CONCEALED HINGE WINDOW)	
	HARDWARE	
36	SCREWED IN HINGE	74mm X 16mm GENIATEC GMBH; FE 74WF 120mm X 16mm GENIATEC GMBH; TUE 120WF 85mm X 20mm SIMONS BAKA; C1–20 130mm X 15mm ANUBA; 515 SM 130mm X 18mm ANUBA; 518 SM
37	POT HINGE	BY: SIEGENIA AUBI KG TYPE: SI
38	CONCEALED HINGE	BY: SIEGENIA AUBI KG TYPE: UV
39	MULTI-POINT LOCK SYSTEM (9mm OR 13mm OFFSET)	BY: SIEGENIA AUBI KG TYPE: MUSHROOM
40	HANDLE	AS REQUIRED TO OPERATE LOCK SYSTEM
	SEALS & SEALANTS	1 STATE TO STATE LOOK STOTEM
44	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER
45	WEATHERSTRIP	THERMOPLASTIC ELASTOMER; BY: DEVENTER

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	FASTENERS	
48	OPTIONAL 18 GA. X 1 1/2" S.S. CURVED NAIL	4" FROM CORNERS & 12" MAX. O.C.
49	NO. 8 X 1 1/2" WOOD SCREW	3 PER POT HINGE INTO SASH
50	NO. 8 X 1 1/2" WOOD SCREW	4 PER POT HINGE INTO JAMB
51	NO. 8 X 1 1/2" WOOD SCREW	2 PER CONCEALED HINGE INTO SASH
52	NO. 8 X 1 3/4" WOOD SCREW	4 PER CONCEALED HINGE INTO JAMB
53	NO. 6 X 5/8" WOOD SCREW	2" FROM CORNERS & 4 3/4" MAX. O.C.

NOTE: WOOD USED IN TESTING WAS SIPO MAHOGANY WITH A SPECIFIC GRAVITY OF G = 0.62 AND A MODULUS OF ELASTICITY OF E = 1,6000,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.62 AND MODULUS OF ELASTICITY OF 1,600,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY TISCHLER UND SOHN TO SELECT.



Miami Dade Product Control

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 13-1105. Expiration Date 13-120.

By Maure Control
Miamy Dade Product Control

STATE OF CORNUT IN SWING IMPACT WC CONSULTANTS

SEP 04/2013

SEP 04/2013

SEP 04/2013

SEP 04/2013

PALM BEACH GARDENS, FL. S3418

CASEMENT WINDOW

WOOD

DRAWING NO. | REV. | 1531 | B

CHECKED BY: W.W.S.

04/03/08

DRAWN BY:

SHEET NO. 14 of 14